

Figure 1 (page 1 of 3)

ATGATGTGCTTAAAGATCCTAAGAATAAGCCTGGCGATTGCTGGGTGGGCACTCTGT 60
M M C L K I L R I S L A I L A G W A L C (20)

TCTGCCAACTCTGAGCTGGGCTGGACACGCAAGAAATCCTTGGTTGAGAGGGAACACCTG 120
S A N S E L G W T R K K S L V E R E H L (40)

AATCAGGTGCTGTTGGAAGGAGAACGTTGTTGGCTGGGGGCCAAGTTTCAAGACCCAGA 180
N Q V L L E G E R C W L G A K V R R P R (60)

GCTTCTCCACAGCATCACCTCTTGGAGTCTACCCAGCAGGGCTGGGAACCTACCTAAGG 240
A S P Q H H L F G V Y P S R A G N Y L R (80)

CCCTACCCCGTGGGGAGCAAGAAATCCATCATACAGGACGACGCAACCCAGACACTGAA 300
P Y P V G E Q E I H H T G R S K P D T E (100)

GGAAATGCTGTGAGCCTTGTTCCTCCAGACCTGACTGAAAATCCAGCAGGACTGAGGGGT 360
G N A V S L V P P D L T E N P A G L R G (120)

GCAGTTGAAGAGCCGGCTGCCCATGGGTAGGGATAGTCTATTGGGCAATCTGAGCTG 420
A V E E P A A P W V G D S P I G Q S E L (140)

CTGGGAGATGATGACGCTTATCTCGGCAATCAAAGATCCAAGGAGTCTCTAGGTGAGGCC 480
L G D D A A Y L G N Q R S K E S L G E A (160)

GGGATTGAGAAAGGCTCAGCCATGGCTGCCACTACTACCACCGCCATTTCACAACCCTG 540
G I Q K G S A M A A T T T T A I F T T L (180)

AACGAACCCAAACAGAGACCCAAAGGAGGGGCTGGGCCAAGTCCAGGAGCGTCGCCAA 600
N E P K P E T Q R R G W A K S R Q R R Q (200)

GTGTGGAAGAGGCGGGCGGAAGATGGGAGGGAGACTCCGCTATCTCTCACATTTCCAA 660
V W K R R A E D G Q G D S G I S S H F Q (220)

CCTTGGCCCAAGCATTCCCTTAAACACAGGGTCAAAAAGAGTCCACCGGAGGAAAGCAAC 720
P W P K H S L K H R V K K S P P E E S N (240)

CAAAATGGTGGAGAGGGCTCCTACCGAGAAGCAGAGACCTTTAACTCCCAAGTAGGACTG 780
Q N G G E G S Y R E A E T F N S Q V G L (260)

CCCATTCTATACTTCTCTGGGAGGCGGGAGCGGCTGCTGCTGCCGTCCAGAAGTCTGGCT 840
P I L Y F S G R R E R L L L R P E V L A (280)

GAGATTCCCCGGGAGGCGTTCACAGTGAAGCCTGGGTTAAACCGGAGGAGGACAGAAC 900
E I P R E A F T V E A W V K P E G G Q N (300)

AACCCAGCCATCGCAGGTGTGTTTGATAACTGCTCCACACTGTCACTGACAAAGGC 960
N P A I I A G V F D N C S H T V S D K G (320)

TGGGCCCTGGGGATCCGCTCAGGGAAGGACAAGGGAAGCGGGATGCTCGCTTCTTCTTC 1020
W A L G I R S G K D K G K R D A R F F F (340)

TCCCTCTGCACCGACCGCTGAAGAAAGCCACCATCTTGATTAGCCACAGTCGCTACCAA 1080
S L C T D R V K K A T I L I S H S R Y Q (360)

CCAGGCACATGGACCCATGTGGCAGCCACTTACGATGGACGGCACATGGCCCTGTATGTG 1140
P G T W T H V A A T Y D G R H M A L Y V (380)

GATGGCACTCAGGTGGCTAGCAGTCTAGACAGTCTGGTCCCTGAACAGCCCTTCATG 1200
D G T Q V A S S L D Q S G P L N S P F M (400)

GCATCTGCCGCTCTTTGCTCCTGGGGGAGACAGCTCTGAGGATGGGCACTATTTCCGT 1260
A S C R S L L L G G D S S E D G H Y F R (420)

GGACACCTGGGCACACTGGTTTCTGGTTCGACCGCCCTGCCACAAAGCCATTTTCAGCAC 1320
G H L G T L V F W S T A L P Q S H F Q H (440)

AGTTCTCAGCATTCAAGTGGGGAGGAGGAAGCGACTGACTTGGTCTGACAGCGAGCTTT 1380
S S Q H S S G E E E A T D L V L T A S F (460)

GAGCCTGTGAACACAGAGTGGGTTCCCTTTAGAGATGAGAAGTACCCACGACTTGAGGTT 1440
E P V N T E W V P F R D E K Y P R L E V (480)

CTCCAGGGCTTTGAGCCAGAGCCTGAGATTCTGTCGCCCTTTGCAGCCCCACTCTGTGGG 1500
L Q G F E P E P E I L S P L Q P P L C G (500)

CAACAGTCTGTGACAATGTGAATTGATCTCCAGTACAATGGATACTGGCCCTTCGG 1560
Q T V C D N V E L I S Q Y N G Y W P L R (520)

GGAGAGAAGGTATACGCTACCAGGTGGTGAACATCTGTGATGATGAGGGCCTAAACCCC 1620
G E K V I R Y Q V V N I C D D E G L N P (540)

ATTGTGAGTGAGGAGCAGATTCTGCTGCAGCACGAGGCACTGAATGAGGCCTTCAGCCGC 1680
I V S E E Q I R L Q H E A L N E A F S R (560)

TACAACATCAGCTGGCAGCTGAGCGTCCACAGGTCCACAATTCCACCCTGCGACACCGG 1740
Y N I S W Q L S V H Q V H N S T L R H R (580)

GTTGTGCTTGTGAAGTGTGAGCCCAGCAAGATTGGCAATGACCATTGTGACCCCGAGTGT 1800
V V L V N C E P S K I G N D H C D P E C (600)

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GAGCACCCACTCACAGGCTATGATGGGGTGACTGCCGCCTGCAGGGCCGCTGCTACTCC	1860
E H P L T G Y D G G D C R L Q G R C Y S	(620)
TGGAACCGCAGGGATGGGCTCTGTACGTGGAGTGTAACAACATGCTGAACGACTTTGAC	1920
W N R R D G L C H V E C N N M L N D F D	(640)
GACGGAGACTGCTGCGACCCCCAGGTGGCTGATGTGCGCAAGACCTGCTTTGACCCTGAC	1980
D G D C C D P Q V A D V R K T C F D P D	(660)
TCACCCAAGAGGGCATAATGAGTGTGAAGGAGCTGAAGGAGGCCCTGCAGCTGAACAGT	2040
S P K R A Y M S V K E L K E A L Q L N S	(680)
ACTCACTTCCTCAACATCTACTTTGCCAGCTCAGTGCGGGAAGACCTTGACGGTGTGCTCC	2100
T H F L N I Y F A S S V R E D L A G A A	(700)
ACCTGGCCTTGGGACAAGGACGCTGTCACTCACCTGGGTGGCATTGTCTCTCAGCCCAGCA	2160
T W P W D K D A V T H L G G I V L S P A	(720)
TATTATGGGATGCTGGCCACACCGACACCATGATCCATGAAGTGGGACATGTTCTGGGA	2220
Y Y G M P G H T D T M I H E V G H V L G	(740)
CTCTACCATGTCTTTAAAGGAGTCAGTGAAGAGAATCCTGCAATGACCCCTGCAAGGAG	2280
L Y H V F K G V S E R E S C N D P C K E	(760)
ACAGTGCCATCCATGAAACGGGAGACCTCTGTGCGGACACCGCCCCACTCCAAGAGT	2340
T V P S M E T G D L C A D T A P T P K S	(780)
GAGCTGTGCCGGGAACAGAGCCCACTAGTGACACCTGTGGCTTCACTCGCTTCCCAGGG	2400
E L C R E P E P T S D T C G F T R F P G	(800)
GCTCCGTTACCAACTACATGAGCTACACGGATGATAACTGCACCTGACAACTTCACTCCT	2460
A P F T N Y M S Y T D D N C T D N F T P	(820)
AACCAAGTGGCCCGAATGCATTGCTATTTGGACCTAGTCTATCAGCAGTGGACTGAAAGC	2520
N Q V A R M H C Y L D L V Y Q Q W T E S	(840)
AGAAAGCCCCACCCCATCCCATTCACCTATGGTCATCGGACAGACCAACAAGTCCCTC	2580
R K P T P I P I P P M V I G Q T N K S L	(860)
ACTATCCACTGGCTGCCTCTATTAGTGGAGTTGTATATGACAGGGCCTCAGGCAGCTTG	2640
T I H W L P P I S G V V Y D R A S G S L	(880)
TGTGGCGCTTGCACTGAAGATGGGACCTTTCGTGATGTGACACAGCTTCTCCCGG	2700
C G A C D G T F R Q Y V H T A S S R	(900)
CGGGTGTGTGACTCCTCAGGTTATTGGACCCAGAGGAGCTGTGGGGCCTCCTGATGTG	2760
R V C D S S G Y W T P E E A V G P P D V	(920)
GATCAGCCCTGCGAGCCAAGCTTACAGGCCTGGAGCCCTGAGGTCCACCTGTACCACATG	2820
D Q P C E P S L Q A W S P E V H L Y H M	(940)
AACATGACGGTCCCTGCCCCACAGAAGGCTGTAGCTTGGAGCTGCTCTTCCAACACCCG	2880
N M T V P C P T E G C S L E L L F Q H P	(960)
GTCCAAGCCGACACCTTACCCTGTGGGTCACTTCCTTCTCATGGAGTCCTCGCAGGTC	2940
V Q A D T L T L W V T T S F F M E S S Q V	(980)
CTCTTTGACACAGAGATCTGTGCGAAAACAAGGAGTCAGTGACCTGGGCCCCCTTAGAC	3000
L F D T E I L L E N K E S V H L G P L D	(1000)
ACTTTCTGTGACATCCCACTCACCATCAAAGTGCACGTGGATGGAAGGTGTGCGGGGTG	3060
T F C D I P L T I K L H V D G K V S G V	(1020)
AAAGTCTACACCTTTGATGAGAGGATAGAGATTGATGCAGCACTCCTGACTTCTCAGCCC	3120
K V Y T F D E R I E I D A A L L T S Q P	(1040)
CACAGTCCCTTGTGCTCTGGCTGCAGGCCTGTGAGGTACCAGTTCTCCGCGATCCCCCA	3180
H S P L C S G C R P V R Y Q V L R D P P	(1060)
TTGCCAGTGGTTGCCCGTGGTGGTGACACATTCTCACAGGAAGTTCACGGACGTGGAG	3240
F A S G L P V V V T H S H R K F T D V E	(1080)
GTCACACCTGGACAGATGTATCAGTACCAAGTTCTAGCTGAAGCTGGAGGAGAACTGGGA	3300
V T P G Q M Y Q Y Q V L A E A G G E L G	(1100)
GAAGCTTCGCCTCCTCTGAACCAACATTCTGGAGCTCCTTATTGTGGAGATGGGAAGTG	3360
E A S P L N H I H G A P Y C G D G K V	(1120)
TCAGAGAGACTGGGAGAAGAGTGTGATGATGGAGACCTTGTGAGCGGAGATGGCTGCTCC	3420
S E R L G E E C D D G D L V S G D G C S	(1140)
AAGGTGTGTGAGCTGGAGGAAGGTTTCAACTGTGTAGGAGAGCCAAGCCTTTGCTACATG	3480
K V C E L E E G F N C V G E P S L C Y M	(1160)
TATGAGGGAGATGGCATATGTGAACCTTTTGAGAGAAAAACCAGCATTGTAGACTGTGGC	3540
Y E G D G I C E P F E R K T S I V D C G	(1180)
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I Y T P K G Y L D Q W A T R A Y S S H E	(1200)

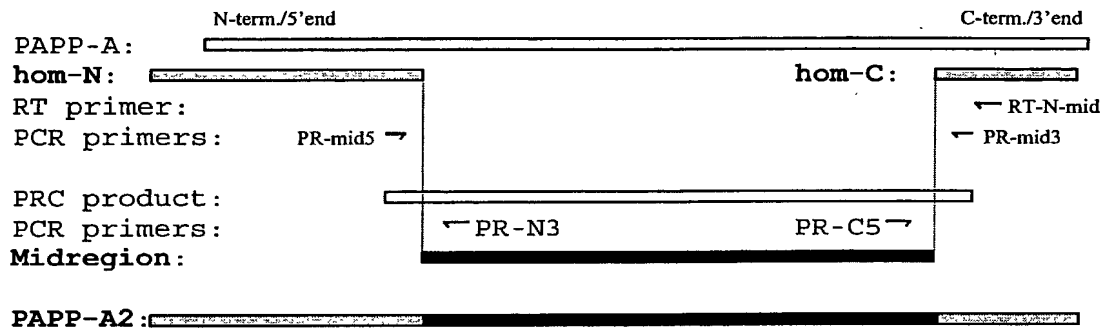


Figure 3 (page 1 of 1)

PA2 mmkllkrlisallagwalhsanSELGWTRKKSILVEREHLNQVLLEGERWLGAKVRRPRASQHHLFVGYPSRAGNYLRPYFVGEQSIHHTGRSKPDTGNAVSLVPDLTENPAGLRG 120
 PA mrlwsvhlhlgllsaalglaERPARRRDRPRAGRPPRPAAGPATATRCGRPPRLAAAAAAGRAWEAVRVFRRRQR 80

N-terminal residue of mature PAPP-A2 (Ser-234)↓

PA2 AVEEPAPVWVGDSPIQSGSELLGDDDAYLGNQRSKESLGEAGIQKGSAMAATTITAITTLNEPKPETQRRGWAKSRQRQVWKRAEDGGQSDSGISSHFQFWPKSLKHVKKSPPEESN 240
 PA -----

PA2 QNGGEGSYREAETFSQVGLFIFYSGRRERLLRFEVLAEIPREAFTEAWKPEGQNNPAIAGVFDNHSHTVSDKGWALGIRSGKDKGRDARFFFSLSLTDVRVKKATILISHSRVQ 360
 PA -----SARGATEEPPSPSRALYFSGRGEQLRVLRADL-ELPRDAFTLQVWLRAGGQRSPAVITGLYDKHSYISDRGWVVGHTISDQNDKDPYFFSLKTDRAQVTTINAHRSYL 192
 PA *****

N-terminal residue of mature PAPP-A (Glu-81)↑

PA2 PGTWTHVAATYDGRHMAIYVDGTQVASSLDQSGPLNSPFMASRSLLLGGDSSDEGHYFRHGLTFLVFWSTALPQSHFQHSQHSSEEEATDLVLTASFEPVNTIEWPFDERKYPRLEV 480
 PA PGQWVYLAATYDQGFMKLYVNGAQVATSGEQVGIFSPLTQKVKVLMGG--SALNHNRYRGYIEHFSLWKVARTQREILSDMETHGAHTALPQLLQENNDNVKHAWSPMKDGSSPKVEF 310
 PA *****

LNR1

PA2 LQGFPEPEILSPLOPPLSGQTVDNVELISQYNGWYPLRGEKVIRYQVNNIDDEGLNPIVSEBQIRLQHEALNEAFSRYNISWQLSVHQVHNSTLRHRVVLNPSKIGNDHDPES 600
 PA SNAHG--FLDTSLEPLPGQTLEDNTEVIASYNQLSSFRQPKVRYRVNLYEDDHKNPTVTREQVDFQHQLAEAFQYNI SWELDVLVSNSSLRRLILANDISKIGDENADPE 428
 PA *****

LNR2

PA2 EHLPTGYDGGDAR-LQGHYSWNRRDGLCHVLENNMINDFDDGDDCDPOVADVRYTFDDPSPKRAYMSVKELKEALQLNSTHFLNIYFASSVREDLAGAATVPWDKDAVTHLGGIVLSP 719
 PA NHTLTGHGGDGRHLRHHAFVKKOHNGVMDLNYERENFDGGEEDPEITNVQTGFDDPSPHRAYLDVNEKLNILKLDGSTHLNIFFAKSSSEELAGVATWWDKELMHLLGGIVLNP 548
 PA *****

PA2 AYYGMPGHTDTMIEHVGNYGLVYVFKGVSERESNDPDKETVPSMETGDLADTAPTKESELREPEPTSDTGGFTRFGAPFTNYSYTDNDTNDNTPNQVARMHLYLDLVYQOWTE 839
 PA SFYGMPEGHTHTMIEHIGSLGLVYVFRGISEIQSDPDMETEPSFETGDLNDTNAPPKHKSIGDPGPGNDTREGFHSFNTFYNNHNSYADDDTDSFTPNQVARMHLYLDLVYQOWP 668
 PA *****

PA2 SRKPTPIPIPPMVGQTNKSLTIHWPPISGVYDRASGSLGAGATEDGTRFYQVYHTASSRRVDDSSGYWTEAVGPPVDVQPEPSLQANSPEVHLYHMMNTPVPE-TEGASLELLFO 958
 PA SRKPAPVALAPQVLGHTTDSVTLFEPPIIDCHFFERELGSANHLILEGRILVQVANSASSPMPESSPGHNSPREAEGHDVEQPKSSSVRWSPNSAVNPHTPVPAPEPQGVLELEFL 788
 PA *****

PA2 HPVQADTLTLWVT--SFFMESSQVLFDTTEILLENKESVHLGLPLDTTIDPLTIKHL-VDGKVSQVYVTFDERIEIDAALLTSQHPSPISGCFPRVRYQVLRDPFASGLPVVTHSHRK 1075
 PA YPLVPESLTIWVTFTDWSGAVNDIKLLAVSGKNISLGPONVEDVPLTIRLWDVGEVYGIQIYTLDEHLEIDAAMLTSTADTPILOKPLKYYKVVDRPPLQMDVASIL-HLNRK 907
 PA *****

PA2 FTDVEVTPQMGYQYQVLAAGGELGEASPLNHHINGAPYDGGKVSERLGEEDDGDVLSGDCSKVSELEEGFNVGGEPSLYMYEGDGIPEFERKTSIVLGLYTPKGYLDQWATRA 1195
 PA FVDMDLNLSVYQYVWITISGTESEPSPAVTYINGRGVGDGIIQKQDQSGDDMNKINGDCSLEHROQVSFNIIDEPSRYTHDGDGVSEEFQKTSIKLGVYTPQGFLDQWASNA 1027
 PA *****

PA2 YSSHEDKKKFPVSLVTGEPSH-LITSYHPDLPNHRPLTCWFFVASENETQDDRSEQEGSLKKEDEVMKLVFNRPCEARAFIFLTTDGLVPEGHQOPTVTLYLDVRSNHSGLTY 1314
 PA SVSHQDQD--FGWVIIGQFAASQVARTKVIDLSEGISQAHWYFTISYPSQLAQTT-----FNLRAYFSQPMVAAAVIHLVTDGTYGDKQETISVQLLDKQSDHDLGLH 1135
 PA *****

SCR1

PA2 GLSFOHNPLIINVTHQNVLFHHTISVLLNFSSPRVGISAVALTSSRIGLSAPSNIISEDEGQNHQGCQIHRPCKQDSFSLLDHADVVNTSIGPGLMKAITQGFALQASSG 1434
 PA VLSEARNPLIIPVVDLSQFFYHSQAVRVSSSEFVAISGVALASFDNFDVTLSSQ-RGETYSFAEQSVHFAEKTD--PELAVENASLNGSSDRYHGACETVSERTGYVLQIRRD 1253
 PA *****

SCR2

PA2 QYIRPMQK--EILLSSGHWDQNVSELVPEGVDPDPSLVNANFSSEGTRFLKRSISGVPPAKLQGLSPWLTLEDGLMSLPEVYKLEDAAPPPIILNANLLPLQDNHDVGTG 1552
 PA DELIKSQTGPSVTVLDEGKWNKQVAFVLSISIPDHHQVYAASFSPGEGTTFGSGSFGRRHPAQLKGNNSLLTLEDGLMSFPEALSLMLAPPEPVNADLTQARKENKHKRVGSF 1373
 PA *****

SCR4

PA2 KYEAKPGYVVAESAEGKVRNKLKICLEGGIWEQSGIFVMEPPFFVFEGMYETNGFSLDSQVLN-----QEREKLPILTKEGLWTQEFRLNENLQGEPPPPSELNS-VEYK 1666
 PA KYEAKPGYVPGSSR-KSKKRAFKTQTDGWSQEGAGVPTSDPPPKFHGLYCTNGFQPNSELRINEDSDASQGLGSNVIHARKDGTWNGSFHVEDEMGGGSVE-NEIENSLKQ 1491
 PA *****

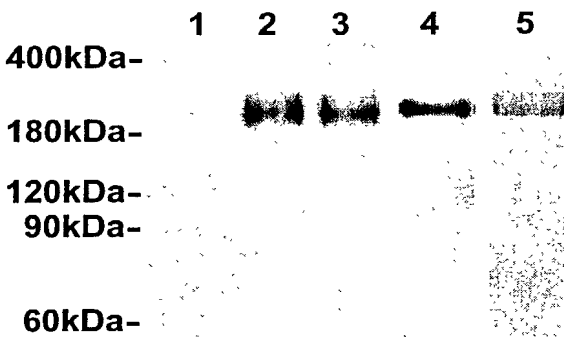
SCR5

LNR1

PA2 EQCYGIGAVSPISVIPPSDFVMLPENITADTLEHWMFVKVQSIYVGTGRQWHPDFVLVHIOSEEPFQADGWDTINNRAVHYDGGDSSSTLSKKKVIFFAADOLD-ESGRDP 1785
 PA PDGYAIGSEKATSLDHNSESIILPMNVTVRDI PHWLNPTVRVVRVATAGLKWYPALIHVKCEPFGMDNYSDAINNRAFENYDGGDSTVTKTKVTPFPFMSDLDGQDGRDP 1611
 PA *****

PA2 KAEENQ----- 1791
 PA QAQEHSRKDLRGYSHG 1627
 PA *****

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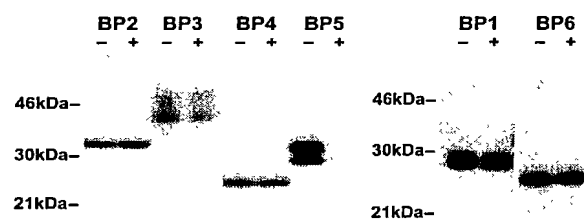


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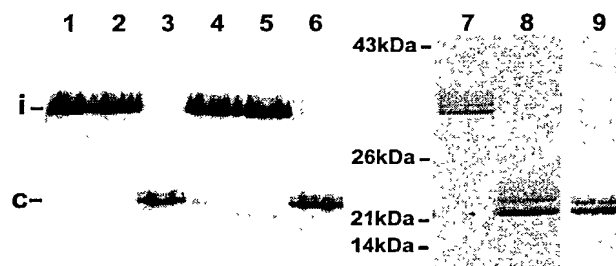


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ATGATGTGCT	TAAAGATCCT	AGAATAAGC	CTGGCGATT	TGGCTGGGTG	GGCACTCTGT	60
TCTGCCAACT	CTGAGCTGGG	CTGGACAAGC	AAGAAATCCT	TGGTTGAGAG	GGAAACACCTG	120
AATCAGGTGC	TGTTGGAAG	AGAACGTTGT	TGGCTGGGGG	CGAAGGTTTCG	AAGACCACCGA	180
GCTTCTCCAC	AGCTACACCT	CTTTGGAATC	TATCCCACGA	GGGCTGGGAA	CTACTTAAGG	240
CCCTACCCCG	TGGGGGAGCA	AGAAATCCAT	CATACAGGAC	GCAGCAAACC	AGACACTGAA	300
GGAAATGCTG	TGAGCGTTGT	TCCCCCAGAC	CTGACTGAAA	ATCCAGCAGG	ACTGAGGGGT	360
GCAGTTGAAG	AGCGCGCTGC	CCCATGGTGA	GGGGATAGTC	CTATTGGGCA	ATCTGAGCTG	420
CTGGGAGATG	ATGACGCTTA	TCTCGGCAAT	CAAAGATCCA	AGGAGTCTCT	AGGTGAGGCC	480
GGGATTTCAG	AAGGCTCAGC	CATGGGCTCC	ACTACTACCA	CGCCCATTTT	CACAAACCTTG	540
AACGAACCCA	AACCAGAGAC	CCAAAGGAGG	GGCTGGGCGA	AGTCACAGGA	GCGTGCCCAA	600
GTGTGGAAGA	GGCGGGCGGA	AGATGGGCAG	GGAGACTCCG	GTATCTCTTC	ACATTTCCAA	660
CCTTGGCCCA	AGCAATCCCT	TAAACAAGG	GTCAAAAGAA	GTCACCCGGA	GGAAAGCAAC	720
CAAAATGGTG	GAGAGGGCTG	CTACCGAGAA	CAGAGACCT	TTAATCTCCA	AGTAGGACTG	780
CCCATCTTAT	ACTTCTCTGG	GAGGCGGGAG	CGGCTGCTGC	TGCGTCCAGA	AGTGCTGGCT	840
GAGATCCCC	GGGAGCGGTT	CACAGTGGA	GCCTGGGTTA	AACCGGAGGG	AGGACAGAAC	900
AACCCAGCCA	TCATCGCAGT	TGTGTTTGAT	AAGTGTCTCC	ACACTGTCTG	TGACAAAGGC	960
TGGGCGCTGG	GGATCCGCTG	AGGGAAGGAC	AGGGGAAAGC	GGGATGCTCG	CTTCTTCTTC	1020
TCCCTCTGCA	CCGACCGCTG	GAAGAAAGCC	ACCATCTTGA	TTAGCCACAG	TCGTTACCAA	1080
CCAGGCACAT	GGACCCGCTG	GGCAGCCACT	TACGATGGAC	GGCACATGGC	CCTGTATGTG	1140
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GCATCTTGCC	GCTCTTTGCT	CCTGGGGGGA	GACAGCTCTG	AGGATGGGCA	CTATTTCCTG	1260
GGACACCTGG	GCACACTGTG	TTTCTGGTGC	ACCGCCCTGC	CACAAAGCCA	TTTCTAGCAC	1320
AGTTCTCAGC	ATTCAAGTGG	GAGGAGGAA	GCGACTGACT	TGGTCTTGAC	AGCGAGCTTT	1380
GAGCCTGTGA	ACACAGAGTG	GGTTCCTTTT	AGAGATGAGA	AGTACCCACG	ACTTGAGGTT	1440
CTCCAGGGCT	TTGAGCCAGA	GCCTGAGATT	TCTGCGCTTT	TGCAGCCCCC	ACTCTGTGGG	1500
CAAAACAGTCT	TGACACATG	GGAAATTGATC	CTCCAGTACA	ATGGATACTG	GGCCCTTCGG	1560
GGAGGAAAGG	TGATACGCTA	CAGGTTGGTG	AACATCTGTG	ATGATGAGGG	CCTAAACCCC	1620
ATTGTGAGTG	AGGAGCAGAT	TCGTCTGCAG	CACGAGGCAC	TGAATGAGCG	CTTCAGCCCG	1680
TACAACATCA	GCTGGCAGCT	GAGCGTCCAC	CAGGTCACAC	ATTCACCCCT	CGCACACCGG	1740
GTTGTGCTTG	TGAAGTGTGA	GCCACGAAG	ATTGGCAATG	ACCTTTGTGA	CCCCGAGTGT	1800
GAGCACCCAC	TCACAGGCTA	TGATGGGGGT	GACTGCGGCC	TGCAGGGCGC	CTGCTACTCC	1860
TGGAACCCGA	GGGATGGGCT	CTGTACGCTG	GAGTGTAAAC	ACATGCTGAA	CGACTTTGAC	1920
GACGGAGACT	GCTGCGACCC	CAGGTTGGTG	GATGTGGCGA	AGACTGCTTT	TGACCTTGAC	1980
TCACCCAAGA	GGGCATACAT	GAGTGTGAAG	GAGCTGAAGG	AGGCCTTGCA	GCTGAACAGT	2040
ACTCATCTCC	TCACATCTA	CTTTGCCAGC	TCAGTGGCGG	AAGACCTCTG	AGGTGTGCTC	2100
ACCTGGCCTT	GCGACAAGGA	CGCTGTCACT	CACCTGGGTG	GCATTGTCTT	CAGCCGACGA	2160
TATTATGGGA	TGCCTGGCCA	CACCGACACC	ATGATCCATG	AAGTGGGACA	TGTTCTGGGA	2220
CTCTACCACT	TCTTTAAAG	AGTCAGTGAA	AGAGAACTCT	GCAATGACCC	CTGCAAGGAG	2280
ACAGTGGCAT	CCATGGAAAC	GGGAGACCTA	TGTGGCGACA	CGCCGCCAC	TCCCAAGAGT	2340
GAGCTGTGCC	GGGAACCGA	GGCCACTAGT	GACACCTGTG	GCTTCACTCG	CTTCCCAGGG	2400
GCTCCGTTCA	CCAACATAC	GAGCTACACG	GATGATAACT	GCATCTGACA	CTTCACTCTT	2460
AACCAAGTGG	CCCCAATGCA	TGCTTATTG	GACCTAGTCT	ATCAGCAGTG	GACTGAAAGC	2520
AGAAAGCCCA	CCCCATCTCC	CATCTCAACT	ATGGTCACTG	GACAGACCAA	CAGTCCCTCC	2580
ACTATCCAAT	GGCTGCCTCC	TATTAGTGGA	GTTGTATATG	ACAGGGCCCT	AGGCAGCTTG	2640
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CGGGTGTGTG	ACTCTCAGG	TATTGGAGC	CCAGAGGAGG	CTGTGGGGCC	TCTGTATGTG	2760
GATCAGCCCT	GCGAGCCAAG	CTTACAGGCC	TGGAGCCCTG	AGGTCCACCT	GTACCACATG	2820
AACATCAGCG	TCCCTTGCCC	CACAGAAGGC	TGTAGCTTGG	AGCTGCTCTT	CCAACACCCG	2880
GTCGAAGCCG	ACACCTTCAC	CTGTGGGTG	ACTTCTTCTT	TCATGGAGTC	CTCGCAGGTC	2940
CTCTTTGACA	CAGAGATCTT	GCTGGAAAAC	AAGGAGTCAG	TGCACCTGGG	CCCCTTAGAC	3000
ACTTTCTGTG	ACATCCCACT	CACCATCAAA	CTGCAGCTGG	ATGGGAAGGT	GTCCGGGGTG	3060
AAAGCTCTAC	CCTTTGATGA	GAGGATAGAG	ATTGATGCAG	CACCTCTGAG	TCTTCAGCCC	3120
CACAGTCCCT	TGTGCTCTGG	CTGCAGGCCA	GTGAGGTACC	AGGTTCTCCG	CGATCCCCCA	3180
TTTGCCAGTG	GTTTGCCCGT	GGTGGTGACA	CATTCTCACA	GGAAAGTTCAC	GGACGTGGAG	3240
GTCACACCTG	GACAGATCTA	TACGATACCA	GTTCTAGCTG	AAGCTGGAGG	AGAAGTGGGA	3300
AGAGCTTCGC	CTCCTCTGAA	CCACATTCAT	GGAGCTCCTT	ATTGTGGAGA	TGGGAAGGTG	3360
TCAGAGAGAC	TGGGAGAAGA	GTTGTATGAT	GGAGACCTTG	TGAGCGGAGA	TGGCTGTCTC	3420
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TATGAGGGAG	ATGGCATATG	TGAACCTTTT	GAGAGAAAAA	CCAGCATTTG	AGACTGTGGC	3540
ATCTACACTC	CCAAAGGATA	CTTGGATCAA	TGGGCTACCC	GGGCTTACTC	CTCTCATGAA	3600
GACAAGAGA	AGTGTCCCTG	TTCCCTGGTA	ACTGGAGAAC	CTCATCTTCT	AATTTTGCACA	3660
TACATACCATC	CAGATTTACC	CAACACCGT	CCCCTAAGTC	GCTGGTTTCC	CTGTGTGCC	3720
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AATCCACTGA	TTATCTAATG	GACCCATCAC	CAGAAATGTC	TTTTCCACCA	TACCACCTCA	4020
GTGCTGCTGA	ATTTCTCATC	CCCACGGGTC	GGCATCTCAG	CTGTGGCTCT	AAGGACATCC	4080
TCCCGCATTG	GCTTTTGCGC	TCCCAGTAAC	TGCATCTCAG	AGGACGAGGG	GCAAGATCAT	4140
CAGGGACAGA	GCTGTATCCA	TCGGCCCTGT	GGGAAGCAGG	ACAGCTGTCC	GTCATTGCTG	4200
CTTGATCATC	CTGATGTGGT	GAACTGTAC	TCTTATAGCC	CAGGTCTCAT	GAAGTGTGCT	4260
ATCACTTGTC	AAAGGGGATT	TGCCCTTCAG	CGCAGCAGTG	GCGAGTACAT	CAGGCCCATG	4320

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CAGAAGGAAA	TTCTGCTCAC	ATGTTCTTCT	GGGCACTGGG	ACCAGAATGT	GAGCTGCCTT	4380
CCCGTGGACT	GCGGTGTTTC	CGACCCGCTC	TGTTGTGAAT	ATGCCAACTT	CTCCGTGCTCA	4440
GAGGGAACCA	AAATTTCTGA	ACGCTGCTCA	ATCTCTTGAG	TCCCACAGGT	CAAGCTGTGCAA	4500
GGACTGAGCC	CATGGCTGAC	ATGTCTTGAA	GATGGTCTCT	GGTCTCTCCC	TGAAGTCTAC	4560
TGCAAGTTGG	AGTGTGATGC	TCCCCCTATT	ATTCTGAATG	CCAAC TTGCT	CCTGCTCTCAC	4620
TGCTCCAGG	ACAACCACG	CGTGGGCACC	ATGCTCAAAT	ATGAATGCAA	ACCAGGGTAC	4680
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GAAGGTGGAA	TC TGGGAGCA	AGGCAGCTGC	ATTCTGTGCG	TGTGTGAGCC	ACCCCCCTCT	4800
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AACTGTAAACC	AGGAACGTGA	AAAGCTTCCC	ATCTCTTGCA	CTAAAGAGGG	CCTGTGGACC	4920
CAGGAGTTTA	AGTTGTGTGA	GAATCTGCAA	GGAGAAATGC	CACCACCCCC	CTCAGGAGCTG	4980
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TGTTGTAATC	CCCCCAAGTG	CCCCGTGATG	CTACCTGAGA	ATATCACTGC	TGACACTCTG	5100
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TGTTGTGACA	CTATCAAAAT	CCGAGCTTAC	TGGCACTATG	ACGGGGGAGA	CTGTGCTCTC	5280
TCCCACTCT	CCTCCAAGAA	GGTCATTCCA	TTTGCTGCTG	ACTGTGACCT	GGATGAGTGC	5340
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GCTCACTGGG	ATGTGATCTA	CTGCGATTAC	ATTTTCTTGT	AACGGTTTTCT	GGATTAGACC	7020
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CTACCACAA	GATAGAAATA	TTATCCACAC	TATCAGTAGT	GGGAAGAACAA	TATCTTGAAA	7320
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CGAAAGGACA	ATGGAAAAGT	TTAGACACTC	TATTTTCAA	ATTTTATAAA	CTTGTTTTAT	7620
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GCTGTAGATT	GAGGCAGAGG	AATTTGTTAT				

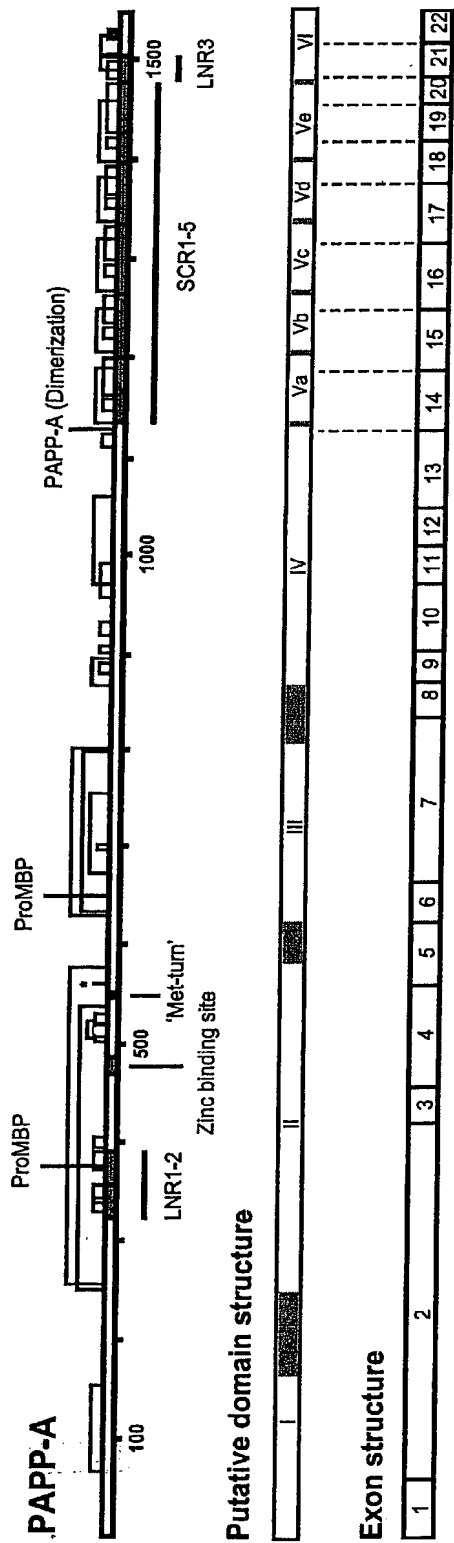


Figure 8 (page 1 of 1)